

10/585326

1AP20 Rec'd PCT/PTO 06 JUL 2006
Attorney Docket No. 0798-1732

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)
Harue NAKASHIMA et al.) Attention: DO/EO/US
Based on PCT/JP2005/024212)
Filed: December 26, 2005)
For: CARBAZOLE DERIVATIVE, AND)
LIGHT-EMITTING ELEMENT AND)
LIGHT-EMITTING DEVICE USING)
THE CARBAZOLE DERIVATIVE)

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.99, Applicant submits herewith a Form PTO-1449 listing information known to Applicant and requests that this information be made of record in the above identified application. Copies are submitted herewith in accordance with 37 C.F.R. 1.98(a).

Copies of U.S. patents and U.S. publications are not enclosed in accordance with the Notice published in the Official Gazette on August 5, 2003 entitled *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003*, which waives the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. publication.

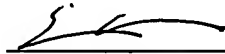
EP 1 452 574 and U.S. Patent Publication No. 2004/0151944 are in the family of WO 2003/048268.

EP 0 762 219 and U.S. Patent No. 5,756,248 are in the family of JP 09-134020.

U.S. Patent Publication No. 2006/0020136 is the family of JP 2006-028176.

U.S. Patent Publication No. 2005/0221124 is in the family of JP 2005-290000.

Respectfully submitted,



Eric J. Robinson
Reg. No. 38,285
Robinson Intellectual Property Law Office, P.C.
PMB 955
21010 Southbank Street
Potomac Falls, Virginia 20165
(571) 434-6789

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
Examiner Name				Attorney Docket Number	
Sheet	1	of	2	0756-7732	

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2004/0151944		Onikubo et al.	08/05/2004	
		5,756,248		Tanaka et al.	05/26/1998	
		2006/0020136		Hwang et al.	01/26/2006	
		2005/0221124		Hwang et al.	10/06/2005	

FOREIGN PATENT DOCUMENTS							
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ² (if known)			
		WO	2003/048268			06/12/2003	Abst.
		EP	1 452 574			09/01/2004	Eng.
		JP	2003-129043			05/08/2003	Abst.
		EP	0 762 219			03/12/1997	Eng.
		JP	09-134020			05/20/1997	Abst.
		JP	2004-288380			10/14/2004	Abst.
		JP	10-265773			10/06/1998	Abst.
		JP	62-280850			12/05/1987	Abst.
		JP	2006-028176			02/02/2006	Abst.
		JP	2005-290000			10/20/2005	Abst.
		JP	3210481			09/17/2001	Abst.
		JP	09-301934			11/25/1997	Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Di Liu et al., Synthetic Metals, Enhancement in Brightness and Efficiency of Organic Electroluminescent Device Using Novel N,N-di(9-ethylcarbaz-3-yl)-3-methylaniline as Hole Injecting and Transporting Material, 08/07/2004, Vol. 146, No. 1, pp. 85-89	
		A. Balionyte et al., Synthesis and Properties of Polymers Containing Aromatic Amino Groups in the Main Chain and Their Glass-Forming Model Compounds, European Polymer Journal, April 30, 2004, Vol. 40, No. 8, pp. 1645-1650	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPROVED BY PTO 06 JUL 2006

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	
				10/585326	
				July 6, 2006	
				Harue NAKASHIMA et al.	
				0756-7732	

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² <i>(if known)</i>			

FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ <i>(if known)</i>				

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Balionyte et al., Potential Hole-Transport Materials Prepared by Ullmann Coupling, Environmental and Chemical Physics, 2002, Vol. 24, No. 1, pp. 30-34	
		K.R. Justin Thomas et al., Light-Emitting Carbazole Derivatives: Potential Electroluminescent Materials, Journal of the American Chemical Society, Vol. 123, No. 38, pp. 9404-9411	
		K.R. Justin Thomas et al., Cyanocarbazole Derivatives for High-Performance Electroluminescent Devices, Advanced Functional Materials, 2004, Vol. 14, No. 4, pp. 387-392	
		International Search Report (Application No. PCT/JP2005/024212) dated February 21, 2006	
		Written Opinion (Application No. PCT/JP2005/024212) dated February 21, 2006	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.